PHILIPS

VCR

VIDEO CASSETTE RECORDER

PHILIPS

PHILIPS

OPERATING MANUAL VR 722

INTRODUCTION

With this Video Cassette Recorder (VCR) you are now the owner of one of the most sophisticated and simple-to-use video recorders on the market.
Naturally, you can't wait to get it going, but, before you do, it's worthwhile taking some time to read through this operating manual. You will learn how to use the video recorder without any problems.
You can practise using the video recorder without any worries because you cannot damage it no matter which buttons you press.

This video recorder has been developed and manufactured in accordance with the international standard ISO 9000 for Quality Assurance Systems.

ISO 9000

This video recorder employs the VHS cassette standard. We recommend that you use PHILIPS VHS video cassettes to ensure the best possible picture quality from your video recorder.
Use only cassettes of a well-known brand which display the VHS symbol:

VHS
PAL SECAM

This operating manual is printed on chlorine-free paper. This is to help protect our environment.

Used batteries should not be thrown away with ordinary domestic refuse. Deposit old batteries at the relevant collection points.

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ENGLISH

Safety instructions

- The manufacturer cannot be held responsible for any damage which is incurred by not using the video recorder in compliance with the national guarantee conditions or safety instructions.
- First check if your supply voltage is the same as that written on the type plate at the rear of your video recorder.
- Danger - high voltage in this appliance! Do not open! The video recorder does not contain any parts that can be repaired by the user. As long as the video recorder is connected to the mains, there are parts of it still in operation. To switch off the video recorder completely you must disconnect it from the mains.
- Ensure that air can circulate freely through the video recorder's ventilation openings. Do not place the video recorder on soft surfaces.
- Do not place the video recorder close to a source of heat (radiator, etc.).
- Protect this video recorder from rain and damp. Ensure that no objects or liquids enter it. If liquid is spilt into the video recorder, disconnect the video recorder from the mains and consult a qualified service technician.

Precautions

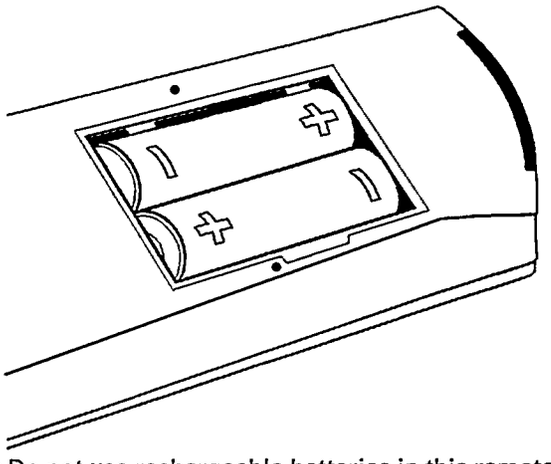
- Before the video recorder is installed, it should be allowed to acclimatise for at least three hours after unpacking.
  Do not use your video recorder immediately after moving it from a cold to a warm location or vice versa, or under conditions of high humidity.
- Ensure that there is a vertical distance of at least 20 cm between the video recorder and your TV set.
- Do not place the video recorder near appliances generating strong magnetic fields (e.g. motors, loudspeakers and transformers).
- Do not use the video recorder in dusty places or where it may be subject to vibration. During heavy thunderstorms (with lightning) we recommend disconnection from the mains and the aerial.
- Do not put your fingers or any other foreign bodies into the cassette loading slot as this could damage the mechanism. Be careful, particularly with children.
- If you have to transport your video recorder, be sure to remove the video cassette from the cassette loading slot and avoid sudden or violent jolts.

INSTALLATION: HOW DO I INSTALL THE VIDEO RECORDER? 1

Preparing the remote control for use

How do I insert batteries into the remote control?

1. Remove the cover from the back of the remote control.
2. Insert the batteries as indicated into the battery compartment and close the cover.

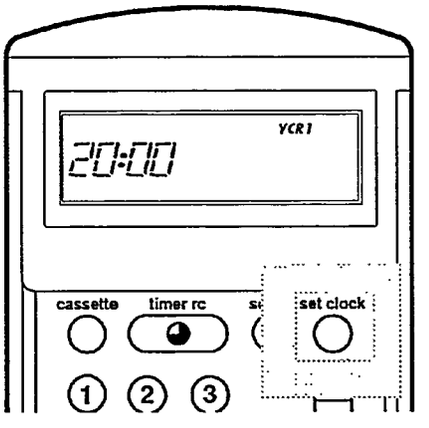


Note: Do not use rechargeable batteries in this remote control.

How do I set the clock on the remote control?

Should the clock not be correctly adjusted (after having changed the batteries, for example), the data will flash on the remote control display.

1. Press button SET CLOCK on the remote control.



The word 'CLOCK' will flash in the remote control display.

❷ Now set the precise time by pressing button VCR PROGRAMME + or − or use the digit buttons 0-9. The clock will start again only after step ❸ has been completed.
If you do not wish to change the data displayed, press button STANDBY on the remote control.

❸ Then press SET CLOCK again.

Connecting to the mains

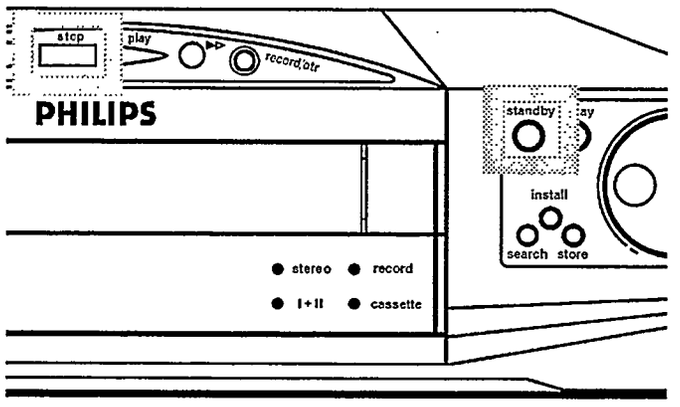
❶ Insert the female plug of the mains cable into the mains socket at the rear of the video recorder.

❷ Insert the plug at the other end of the mains cable into the wall socket.

Some general notes for subsequent operation:

• The video recorder should remain connected to the mains at all times to ensure that programmed recordings can be made and that the television works. The power consumption is very low.

• No special button is required to switch on the video recorder. It will switch itself on as soon as a cassette is loaded or when any of the tape transport buttons are pressed (e.g. STOP).



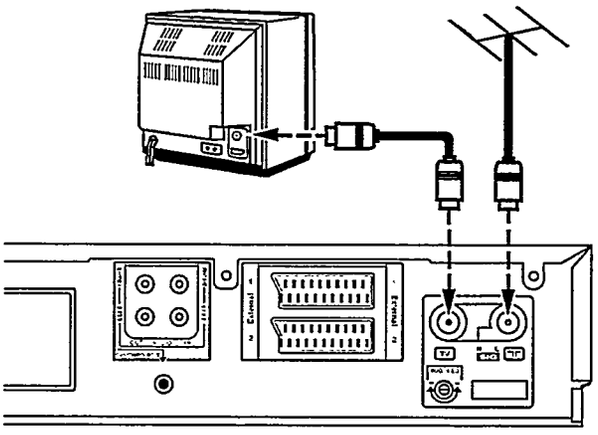
• If you have switched off the video recorder with button STANDBY, the display will show, e.g.:

Connecting the aerial

Your video recorder is actually a 'TV set without a screen'. This is why you have to connect it to an aerial as well as to the TV set. Only then can you make recordings and play cassettes.

❶ Remove the aerial cable plug from the TV set and insert it into the socket at the rear of the video recorder.

❷ Use the aerial cable provided to connect the socket TV on the video recorder to the aerial input socket on your TV set.



Both the TV set and the video recorder are now connected to the aerial.

ENGLISH

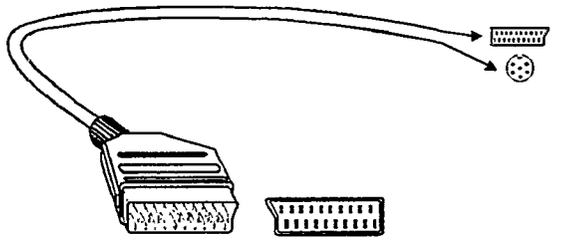
Connecting to the TV set

The connection to the TV set can be made in **two different ways** .

Whether you choose Method 1 or Method 2 depends on your TV model.

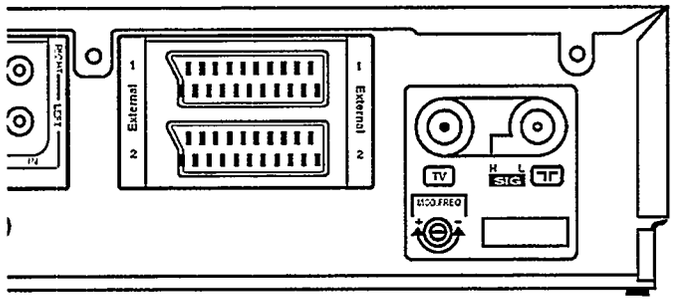
Method 1:

If your TV set **has** an AV-Euro-socket (scart-socket) or a DIN AV-socket:



We recommend that you use the AV-Euro-cable (scart-cable) supplied. This will guarantee the **best possible picture and sound quality.**

❶ Use the AV-Euro-cable to connect the TV set to the AV-Euro-socket EXTERNAL 1 on your video recorder.



❷ Switch on the TV set and select the programme number 'AV' (= Audio/Video input) for the video recorder. This is explained in the operating manual for your TV set.

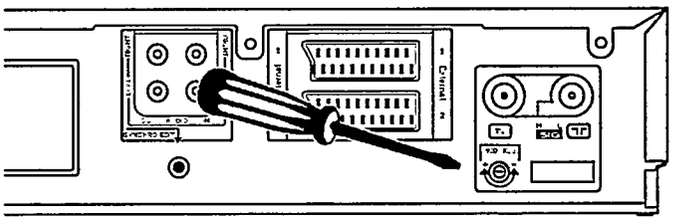
Important note: Many modern TV sets **automatically** switch over to the programme number 'AV' during playback on the video recorder. If your TV set does this, you do **not need to select** the programme number on the TV set in the following chapters.

Your video recorder is now fully connected to the TV set.

Special note: Your video recorder occupies channel UHF-36 or 37.
However, it is possible that, in your reception area, this channel is already occupied by another TV channel.
In this case you will notice a change in the picture quality on the TV set, e.g. wavy lines in the picture, during **subsequent** use of the video recorder.
You can easily solve this problem as follows:

❸ Switch on the video recorder with button STOP .

❹ Use a small screwdriver to turn the channel control +⊙− at the rear of the video recorder less than half a revolution until the interference has gone.



❺ If the interference cannot be cleared, you will have to switch off the 'modulator'. There must not be a cassette in the video recorder at this moment.
Press buttons PLAY and EJECT simultaneously.
The current position of the switch 'MODUL ON' will be shown in the display. If you press both buttons for five seconds, you switch over to 'MODUL OFF'.
In the same way you can also switch it on again.
Important: Only playback with the AV-Euro-cable (= Method 1)is now possible. Playback using the aerial cable (= Method 2) is **no longer** possible.

❻ Switch off the video recorder with button STANDBY .

Method 2:

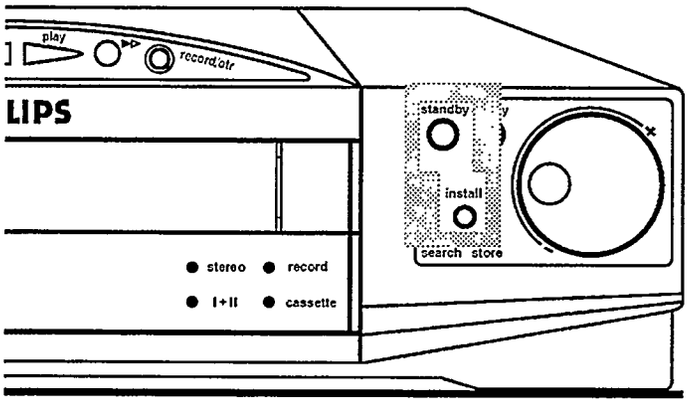
If your TV set **does not have** an AV-Euro-socket:

The **aerial cable which is already connected** will act as the connection between your TV set and the video recorder.

❶ Switch on the TV set and select the programme number reserved for video playback. (This is explained in the operating manual for your TV set).

❷ Disconnect the aerial cable from the aerial socket ⊓ of the video recorder so that only the cable connection between the TV set and the video recorder remains.

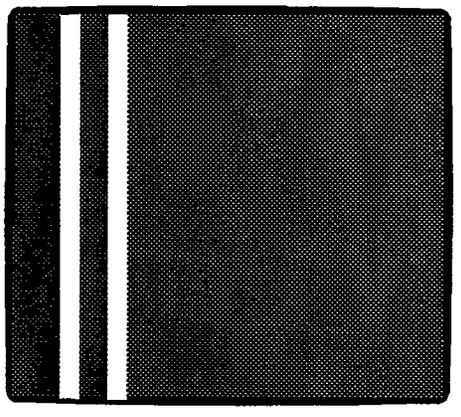
❸ Switch off the video recorder with button STANDBY and press button INSTALL.



The buttons are located behind a cover on the right side of the front of the video recorder.

The video recorder is now transmitting a test picture which the TV set should receive.

❹ Tune the TV set in the UHF range until this test picture appears. The video recorder is set to channel UHF-36 or 37 in our factory.



In order to find out how to tune to the right channel and to store this on your TV set, please consult the operating manual for your TV set.
Note: During subsequent playback with the video recorder, check the sound and picture quality of reception on the TV set. If required, you can improve the picture, colour and sound by adjusting the channel on the TV set.

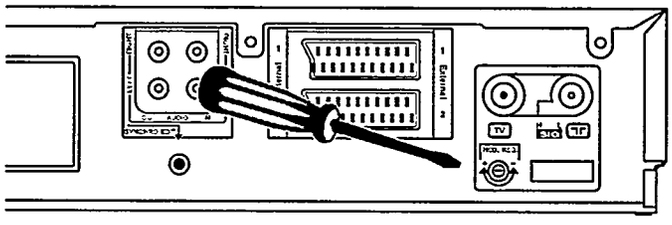
❺ Insert the aerial cable again into the aerial socket ⊓. You have now tuned the TV set to the video recorder.

Note: Your video recorder occupies channel UHF-36 or 37. However, it is possible that, in your reception area, this channel is already occupied by another TV channel.
In this case you will experience a reduction in picture quality on the TV set when receiving one or more TV channels.
If this occurs, proceed in this way:

❻ Check if the quality of reception on all TV channels stored in the TV set is unchanged.

❼ If the picture quality of one or more TV channels has deteriorated, switch off the video recorder with button STANDBY. Check all the TV channels on the TV set once again.

❽ If interference to the picture quality only occurs when the video recorder is switched on, use a small screwdriver to turn the channel control +⊙− at the rear of the video recorder by less than half a revolution:



❾ Tune the TV set once more to the video recorder (steps ❷ to ❺) until you see the test picture again.

❿ Check again all the TV channels stored on your TV set. Repeat the channel adjustment +⊙− (steps ❽ and ❾) until you cannot notice any difference between the picture quality when the video recorder is on and when it is off.

⓫ Switch off the video recorder with button STANDBY.

ENGLISH

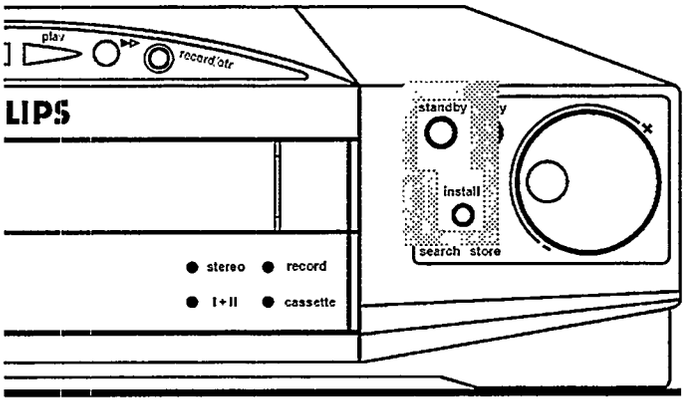
Emergency interrupt

The video recorder and the remote control have an 'Emergency interrupt' function. You can interrupt any function by pressing button STANDBY. Only the 'child lock' function is not affected.
Whenever you have any problems while operating the video recorder, you can simply interrupt any function and start again.
You can practise using the video recorder without worrying. No matter which buttons you press, you won't damage the video recorder.

Setting the display language and the clock

❶ Switch off the video recorder with button STANDBY and press button INSTALL.

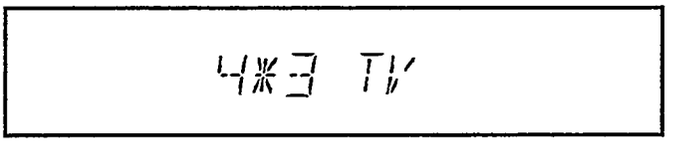
The buttons are located behind a cover on the right side of the front of the video recorder.



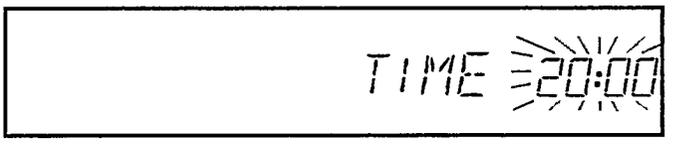
In the video recorder display appears:

❷ Press button INSTALL again. Use the rotary control to select the display language of your choice, e.g. 'ENGLISH'.

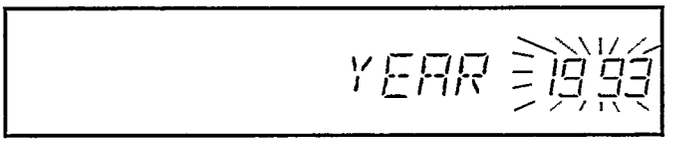
❸ Press the INSTALL button. '4:3 TV' appears on the display. If you have one of the new wide screen TV sets, then use the SELECT button (remote control) to switch over to the '16:9' format. Otherwise, leave the setting at '4:3'.



❹ Press button INSTALL again. The display will show 'TIME'. Now use the rotary control to set the current time.

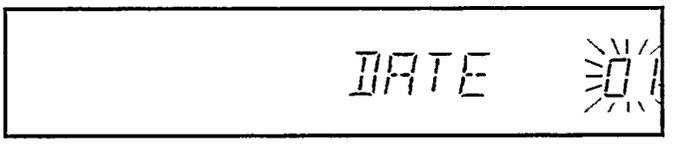


❺ Press button INSTALL again. The display will show 'YEAR'. Now set the current year.



❻ Press button INSTALL again. The display will show 'MONTH'. Now set the current month.

❼ Press button INSTALL again. The display will show 'DATE'. Set today's date.

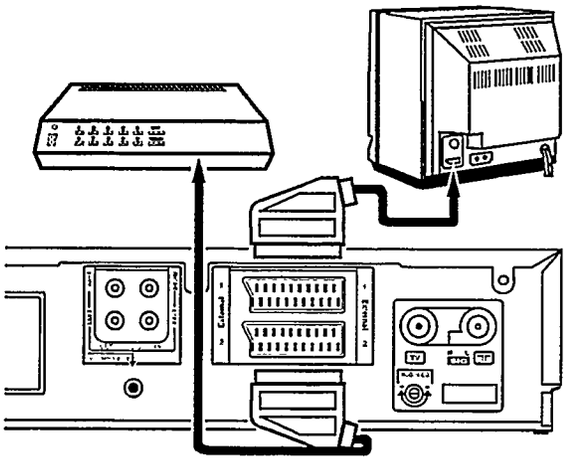


❽ Press button INSTALL again. You have now finished setting the display language and the clock.

Connecting a decoder

Some TV broadcasters transmit encoded TV signals which you can only see with a bought or hired decoder. You can connect such a decoder (descrambler) to this video recorder.

❶ Use an AV-Euro-cable to connect the decoder to the video recorder (socket EXTERNAL 2).
You will find a description of how to store TV channels with the 'decoder' in the chapter **'Storing TV channels'**.



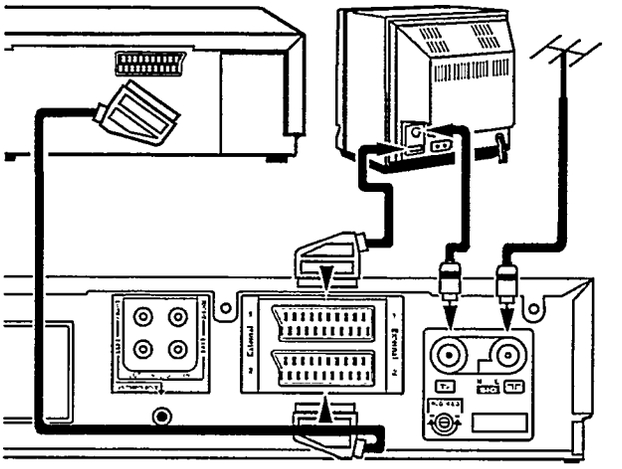
Note: * If you have tuned the video recorder and TV set to different TV channels, you can only use the decoder for one of them.
* Select on the video recorder a programme number that was linked to the 'DECODER' function when you were storing the TV channels. The video recorder then automatically uses the decoder.
* When you are buying the decoder, ask about the right channel number for the TV station. This will make it easier for you when you install it later.

AV-Euro-sockets (scart-sockets)

This video recorder has two AV-Euro-sockets. You can connect a second appliance, e.g. a second video recorder, a satellite receiver or a video-CD player, to the AV-Euro-socket EXTERNAL 2. Connect the TV set to the socket EXTERNAL 1.

❶ Use an AV-Euro-cable to connect the video recorder (socket EXTERNAL 2) to the second appliance.

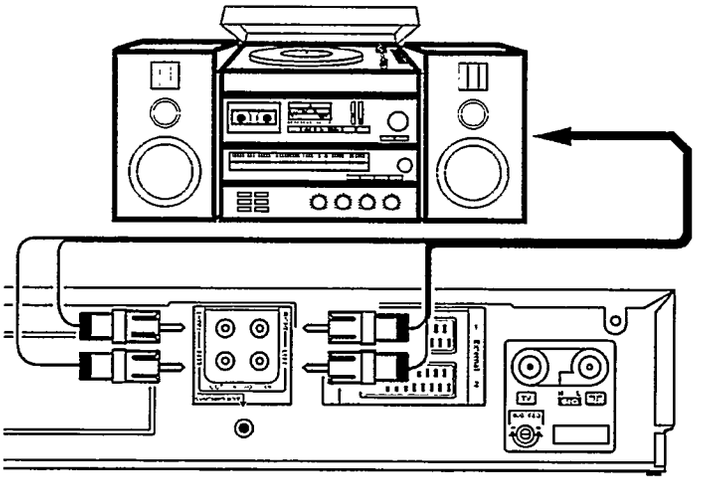
❷ Connect the TV set to the socket EXTERNAL 1.



Connecting to Hi-Fi equipment

Use an audio cable to connect the socket AUDIO IN to the corresponding output socket on the audio amplifier. You can buy this cable from your dealer.

Connect the socket AUDIO OUT to the corresponding input socket on the audio amplifier.



ENGLISH

STORING TV CHANNELS 2

In Chapter 1 you connected your TV set to the video recorder, thus enabling you to play a cassette.
Your video recorder has its own receiver. Because of this, it can be used independently of the TV set.
In order to be able to record TV programmes, you first have to store each TV channel (e.g. 'BBC 1') in the video recorder. Each TV channel is transmitted on a specific 'channel number'.

So that you don't have to remember these channel numbers, assign a programme number in your video recorder to each TV channel.

For example: BBC 1 (channel number 'C 47') is assigned, **by you** , the programme number 'P 2'. Use, in this instance, the same numbers as used on your TV set.
You can store up to 42 TV channels.

You have two possibilities for storing TV channels:

• If you do not know the channel number: Please read the following section **'Automatic channel search'.**

• If you do know the channel number: Please read the section **'Direct channel storage'.**

A general note: If you store a TV channel with a programme number that has already been used, the original channel number stored will be deleted.

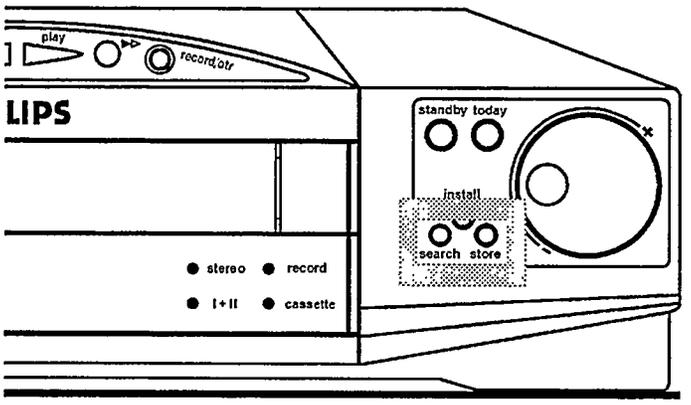
A tip: In rare cases, two TV channels may be on one channel number. In this case, the video recorder will not find one of these TV channels.
Then run through all the channel numbers again with the 'Automatic channel search'. **Each time** you find a TV channel, press button TRACKING ▶ on the remote control. The automatic fine tuning then begins. Whenever you find the sought TV channel, store it.

Automatic channel search

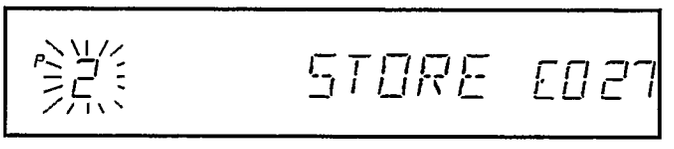
❶ Switch on the TV set and select the programme number for the video recorder.

❷ Switch on the video recorder with button STOP.

❸ Press button SEARCH.



When the automatic channel search finds a TV channel, its picture will appear on the TV screen. The display will show, e.g.:



Have you used an AV-Euro-cable to connect the video recorder to your TV set and does your TV set respond to the switch-over with button MONITOR (remote control)? If so, you can now switch to and fro between TV reception and video recorder reception. This is the easiest way for you to assign the same TV channels to the same programme numbers on both appliances.

If this is not the required TV channel, or if the picture quality is poor, press button SEARCH again. The video recorder then searches for the next TV channel.

If this TV channel is encoded and the video recorder is connected to a decoder, press button SELECT (remote control). The display will show 'DECODER'.

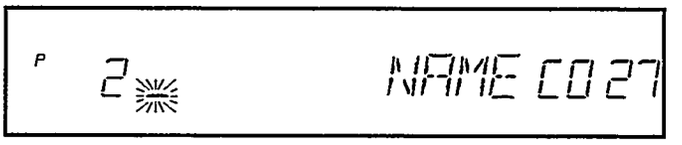
From now on, the video recorder will activate the decoder function for this TV channel (= this 'programme number').

❹ The video recorder will propose a programme number under which to store the TV channel (e.g. 'P 2' in the diagram). If you wish to store it under another programme number, use the rotary control −○+ to change it.

Note: The programme number proposed by the video recorder will automatically increase by one each time a TV channel is stored.

❺ If the programme number is correct, store it by pressing button STORE.

❻ Now you can give the TV channel a name (e.g. 'BBC 1') or change the present name. This TV channel name will appear in the display whenever you select this TV channel.
If you do not wish to give a name, go directly to step ❼.



Use the **remote control** to enter the name. Proceed as follows:

* Press button VCR PROGRAMME + or − to select the desired numbers or letters.

* By pressing button SELECT you can choose the position where you want to place the character (up to 5 characters are possible).

* By pressing button CLEAR you can reset the chosen position to a 'blank space' or delete the contents.

❼ Press button STORE on the video recorder to conclude.

❽ Repeat steps ❸ to ❼ until you have stored all the TV channels that you want.

ENGLISH

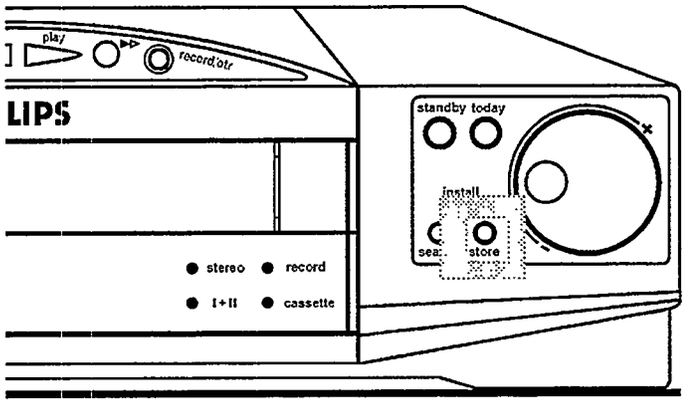
Direct channel storage

❶ Switch on the TV set and select the programme number for the video recorder.

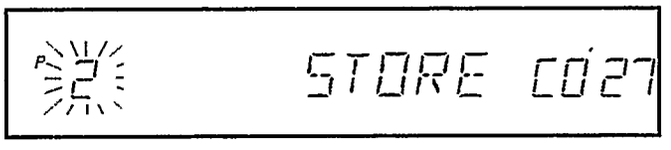
❷ Switch on the video recorder with button STOP.

❸ Use the rotary control to select the programme number under which you wish to store the TV channel.

❹ Press button STORE.



A flashing channel number will be displayed:



Use the rotary control or the digit buttons 0-9 on the remote control to select the desired channel number. If you are using the digit buttons 0-9, always enter the channel number as a three-digit number, e.g. 027 for channel 27.

If this TV channel is encoded and the video recorder is connected to a decoder, press button SELECT (remote control). The display will show 'DECODER'.

From now on, the video recorder will activate the decoder function for this TV channel (= this 'programme number').

❺ A TV channel now appears on the TV screen.

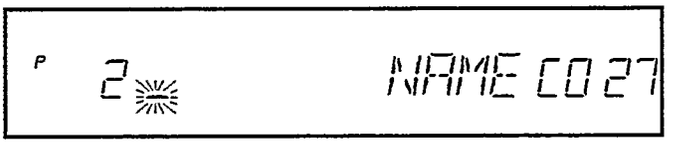
Have you used an AV-Euro-cable to connect the video recorder to the TV set and does your TV set respond to a switch-over with button MONITOR (remote control)? In this case, you can now switch to and fro between TV reception and video recorder reception. This is the easiest way for you to assign the same TV channels to the same programme numbers on both appliances.

When you have found the right TV channel, store it with button STORE.

❻ If you want to reset the automatic TV channel setting, you can use the +/- function to vary from the standard value '0' within a range of +4 to -4.
Important: Such resetting is only necessary and useful in **special cases**, e.g. when there are stripes on the picture in cable-TV systems. However, the picture and sound quality may deteriorate.

❼ When the tuning is right, store this with button STORE.

❽ Now you can give the TV channel a name (e.g. 'BBC 1') or change the present name. This TV channel name will appear in the display whenever you choose this TV channel.
If you do not wish to give a name, go directly to step ❾.



Use the **remote control** to enter the name. Proceed as follows:

* Press button VCR PROGRAMME + or − to select the desired numbers or letters.

* By pressing button SELECT you can choose the position where you wish to place the character (up to 5 characters are possible).

* By pressing button CLEAR you can reset the chosen position to a 'blank space' or delete the contents.

❾ Press button STORE on the video recorder to conclude.

❿ Repeat steps ❸ to ❾ until you have stored all the TV channels that you want.

Cable TV with special channel numbers

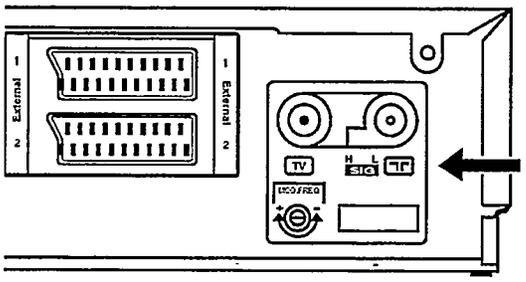
If you possess cable TV equipment with special channel numbers, you must enter the channel numbers already defined for the special channels.
Proceed as described in the section 'Direct channel storage'. In step ❹, enter the channel numbers (e.g. channel '080' for special channel 'S1') according to the following table.
Further information about the special channel numbers of your TV channels is available from your cable TV supplier.

Special channel/channel number (Hyperband)

S1	080	S11	090	S21	100	S31	110
S2	081	S12	091	S22	101	S32	111
S3	082	S13	092	S23	102	S33	112
S4	083	S14	093	S24	103	S34	113
S5	084	S15	094	S25	104	S35	114
S6	085	S16	095	S26	105	S36	115
S7	086	S17	096	S27	106	S37	116
S8	087	S18	097	S28	107	S38	117
S9	088	S19	098	S29	108	S39	118
S10	089	S20	099	S30	109	S40	119
						S41	120

Attenuator switch - SIG

Normally, you can leave the attenuator switch at the rear of the video recorder at position L. Set to position H only when interference (poor picture quality) occurs in an area with a strong signal.



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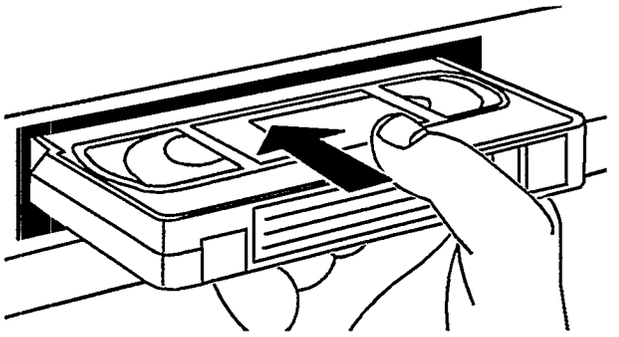
PLAYING A RECORDED CASSETTE 3

In Chapter 1 you connected your video recorder to the TV set. Playing a cassette is now very simple.
If you want to record something immediately, first read Chapter 4.

❶ Switch on the TV set and select the programme number reserved for video playback.

Many modern TV sets **automatically switch over** to the programme number for the video recorder when a cassette is being played. However, this functions only if you have used an AV-Euro-cable to connect the video recorder to your TV set.

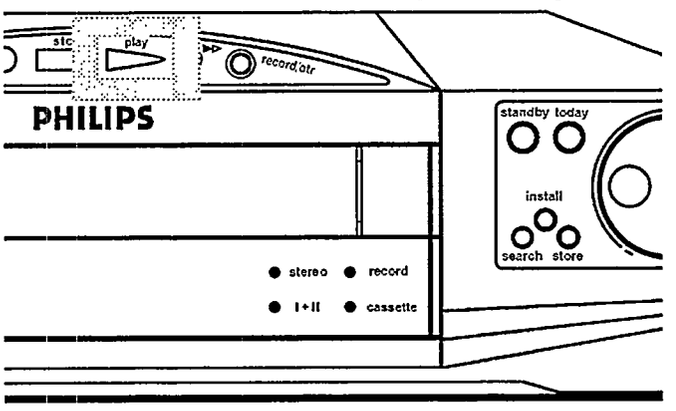
❷ Insert the cassette into the cassette slot with the title label facing towards you. The window must be facing upwards.



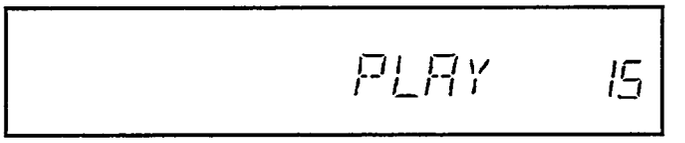
Press against the centre of the cassette until the cassette is automatically pulled inside.
Only one side of VHS cassettes can be used for recording or playback.

When you insert a cassette, the video recorder automatically switches itself on, and the indicator for 'CASSETTE' (= cassette loaded) lights up on the display.

❸ Press button PLAY.

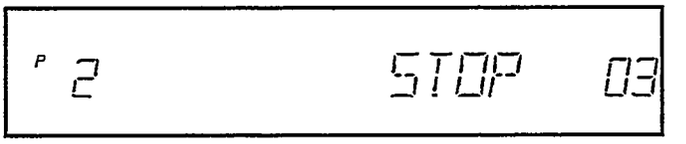


The display will show, e.g.:



You will see the recorded programme on the TV screen.

❹ If you wish to interrupt playback, press button STOP. The display will show, e.g.:



❺ If you wish to remove the cassette, press button EJECT.

Note: * Each time a cassette is loaded or removed the video recorder automatically cleans the video heads. In this way the best playback quality is maintained.
* On this video recorder you cannot play cassettes that have been recorded in the (non-European) NTSC standard on other video recorders.
* When playing a long play recording, the video recorder automatically switches over to this speed. The display will show 'LP'.

How do I remove picture interference (Auto-tracking)?

Each time a cassette is loaded, the video recorder **automatically** adjusts to the correct tracking position.

For **recordings made on another video recorder** you may be able to improve the automatic optimum position as follows:

❶ Press button PLAY on the remote control.

❷ Press button TRACKING ▶ on the remote control.

❸ Press button PLAY as soon as the optimal playback quality has been reached. This setting will remain until you remove the cassette.

Other functions

Fast wind and rewind:

1. Press button STOP.
2. Press button ◀◀ (rewind) or ▶▶ (wind) on the video recorder or button ◀◀ SPEED or SPEED ▶▶ on the remote control. The tape will wind or rewind at high speed.
3. Press button STOP or PLAY as soon as you have reached the required position on the tape.

Picture search (scanning):

With this function you can select a fast picture search forwards or backwards.

1. Press button PLAY (remote control).
2. Press button ◀◀ SPEED or SPEED ▶▶ (remote control).
   'SCANNING' (forwards or backwards) appears in the display.
3. Press button PLAY when you have found the required passage.

The single frame/scanning (JOG/SHUTTLE) function:

On the remote control you will find a large rotary control.

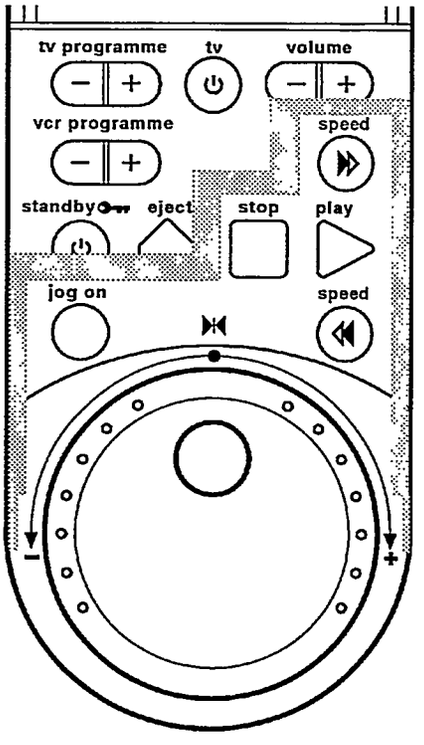
1. First switch on the function with button JOG ON. The green lamp will light up. Still picture appears.
2. Turn the inner (jog) dial to select the next single frame forwards or backwards (JOG function).

By turning the outer (shuttle) ring of the rotary control during playback, you can select picture search in several steps forwards and backwards (SHUTTLE function).

Proceed with the SHUTTLE function as follows:

1. Press button PLAY.
2. Switch on the JOG/SHUTTLE function with button JOG ON. The green lamp will light up. Still picture appears.
3. Starting at the central setting ('STILL'), turn the outer ring −○+ to the right. You can select from the following scanning speeds:
   +1/6, +2 +5, +7, +9, +11.
   If you turn it to the left, the speeds are:
   -1/6, -1, -3, -5, -7, -9, -11.

Note: * If the still picture vibrates vertically, press button TRACKING ▶ until the vibration disappears.
If you pass the optimum setting, you can repeat this step with button TRACKING ▶.
You only have to find the optimum setting once as the video recorder will store it automatically.
Please note, however, that interference may still occur with hired cassettes of poor quality.
This is not caused by your video recorder.
* During scanning, the picture quality is affected and the sound is muted.
This does not mean that the function is faulty.
* If you do not use the JOG/SHUTTLE function for more than one minute, the switch JOG ON switches off automatically.



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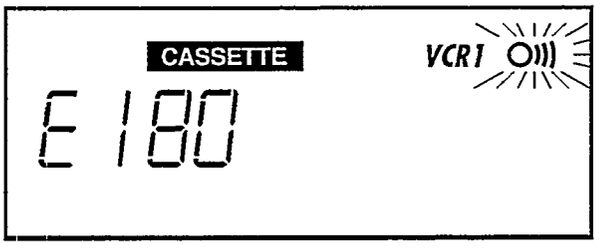
Tape position. How do I know where I am on the tape?

It is handy to know for how long a cassette has already been playing or how long is still left.
To indicate this, your video recorder offers you three different display possibilities (in step ❹).

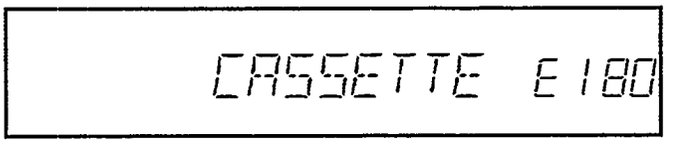
First, you must enter the tape length of the loaded cassette. This is necessary if the correct playing time is to be indicated. The tape length is given on the cassette in minutes, e.g. 'E180' corresponds to 180 minutes of playing time. You will find the length printed on the left of the front narrow edge. The actual length, however, may be a little longer than indicated.

❶ Press button CASSETTE on the remote control. A cassette length will appear in the display of the remote control, e.g.:



❷ Now press button VCR PROGRAMME + or − in order to select the right cassette length. The possibilities available appear in this order: E30, E60, E90, E105, E120, E150, E180, E195, E200, E210, E240, E260, E300, EC30, EC45, E30, etc.

❸ Point the remote control at the video recorder. Press button CASSETTE on the remote control.
In this way, you transmit the data to the video recorder. When it has received the data, the display will show, e.g.:

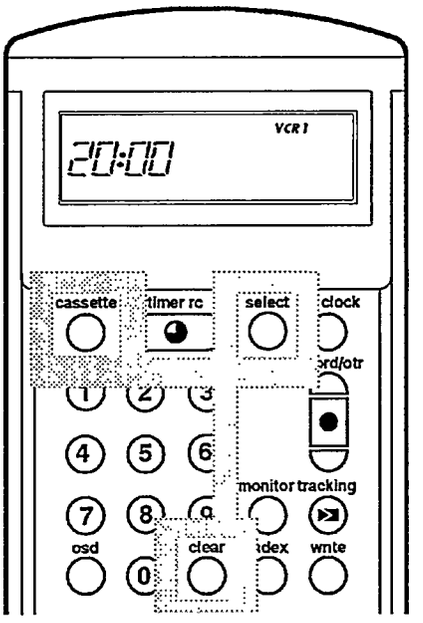


❹ Now you can use button SELECT on the remote control to select from the following **three display possibilities** :

elapsed playing time	:	Display (= time used)
remaining playing time	:	Display (= time left)
counter	:	Indication of tape position

You can read this display during winding and rewinding, during recording, playback and stop.
If you want to reset the counter indication of the tape position to '0', press button CLEAR.

Please also note: * With newly loaded cassettes, the video recorder must first calculate the playing time. The video recorder first shows, e.g. '-:--' and waits a few seconds before displaying the correct playing time.
* The time display works accurately only with PAL/SECAM-VHS cassettes.
Cassettes made for NTSC-VHS equipment do not show an exact time.

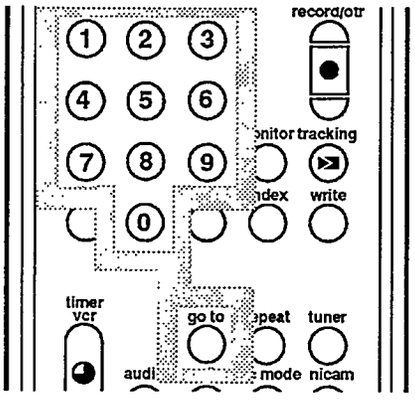


How do I find a particular position on the tape?

Sometimes you may have recorded two or even more TV programmes on one cassette. In this case, it is worthwhile making a note of the tape position at which the recordings start and end.
So that you do not have to search for a long time, your video recorder offers you two methods for automatic searching: 'GO TO' and 'VISS'.

Search for tape position (GO TO):

❶ Press button GO TO on the remote control.



❷ Now use the digit buttons 0-9 to enter the (4-digit) tape position that you wish to find.

❸ You may now select the function to be started from that position, e.g.: STOP, PLAY or RECORD / OTR. The video recorder winds the tape to the chosen position and then continues automatically with the selected function.

The VHS Index Search System ('VISS'):

The video recorder writes VISS code marks on the tape every time the record button is pressed. Using the button INDEX you can search for these VISS code marks on the tape.

You cannot use the VISS function with recordings made on another videorecorder that does not have the VISS function.

Intro-Scan:

This VISS function will give you a survey of all the TV programmes recorded on the tape.

❶ Press button INDEX. The display will show 'INDEX -'.

❷ Press button PLAY. The tape will play for 10 seconds, then wind on to the next VISS code mark and play for another 10 seconds, and so on.

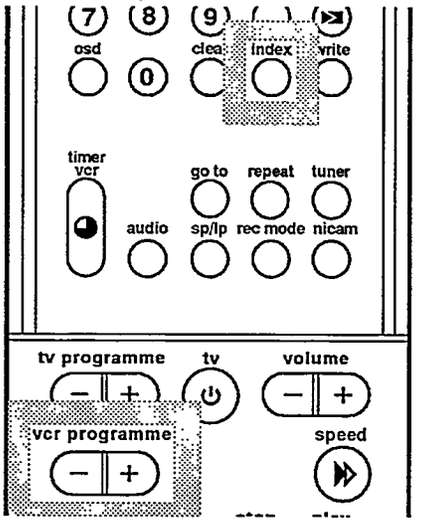
When the end of the tape is reached, the tape is rewound to the beginning.

Note: When you press any tape transport button (e.g. button PLAY or STOP), the video recorder interrupts the 'Intro-scan' function.

VISS search:

Select this function if you are looking for a particular VISS code mark.

❶ First press button INDEX (remote control), and then button VCR PROGRAMME + to select the following code mark, or button − to select the previous one.
If you are looking for a code mark that is not the next one, press button VCR PROGRAMME + or − as often as is necessary.



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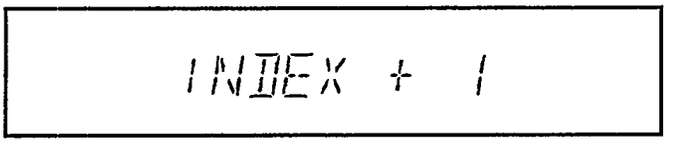
The display of the video recorder will show, e.g.:



❷ Select the function that is to follow after the code mark is found (e.g: 'playback').
When the code mark is found, the video recorder then begins with the function you chose.

Note : When you press any tape transport button (e.g. button PLAY or STOP), the video recorder interrupts the search.

Setting or erasing VISS code marks manually:

To find certain positions on the tape quickly, you can set and erase code marks by yourself.
This only works with cassettes which are not protected against recording.

If you want to **set** a code mark, proceed as follows:

❶ During playback, search for the position on the tape to be marked.

❷ At the right position, press button WRITE. A code mark will be set.

If you want to **erase** a code mark, proceed as follows:

❶ Press button INDEX. Use button VCR PROGRAMME + or − to select the code mark that you want to erase.

❷ Then press button CLEAR immediately. The video recorder will now search for the code mark. When it is found, the video recorder switches to the 'STILL' position. 'CLEAR INDEX' will then flash in the display.

❸ Press button CLEAR again. The video recorder returns to playback, erases the code mark and remains in the 'STOP' position.

Note: * Please make sure that you select the same speed (SP/LP) as was used for recording.
* If you want to erase a VISS code mark with 'Audio only recording', switch the video recorder to the 'AUDIO ONLY' mode before step ❶. You can find the description of this in the chapter 'Other recording possibilities', section 'Audio only recording'.

Picture sharpness control

You can adjust the picture sharpness in playback in seven steps as you require.

❶ Press button PLAY.

❷ Press button VCR PROGRAMME + or −. The display will show the current setting: from '+3' to '-3' (+3 is maximum sharpness).
You can change the current setting by pressing button VCR PROGRAMME + or − again within five seconds.
The number '0' shows the medium setting.

Continuous playback

This function will permit continuous viewing (i.e. playback - rewind - playback) between any two freely chosen positions on the tape.

❶ Locate the first tape position (start). Press button REPEAT (remote control). The tape position is stored. The display will show 'REPEAT PLAY' and 'START'.

❷ Locate the second tape position (end of the playback). Press button REPEAT.
The video recorder will begin to play at the first position on the tape.

❸ You can cancel continuous playback by pressing button STOP.

Selecting the audio track and audio mix

❶ Press button AUDIO to select the desired audio track: mono, stereo, language I, language II or audio mix. The video recorder display will show one of the following indications:

STEREO	for stereo sound
LEFT	for language I, left
RIGHT	for language II, right
MONO	for mono sound
MIXED	for audio mix (only with playback)

❷ You can switch from the one possibility to the next in the above sequence by pressing button AUDIO several times within five seconds.

Note: * If no stereo sound has been recorded on the cassette, the video recorder automatically switches over to mono sound.
* With the 'Audio Mix' function, you can play the mono sound of the normal ('linear') audio track together with the sound of the stereo audio track (see recording with 'audio dubbing').

* Stereo playback is only possible if the video recorder is connected to a stereo TV set or a Hi-Fi audio system via a connecting cable (socket 'EXTERNAL 1/2' or 'AUDIO OUT').
* It is possible that some TV stations will broadcast mono sound transmissions incorrectly in a bilingual mode (indicator I+II will light up).
If the sound quality is poor, switch to either 'language I' or 'language II'.

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HOW CAN I RECORD DIRECTLY? 4

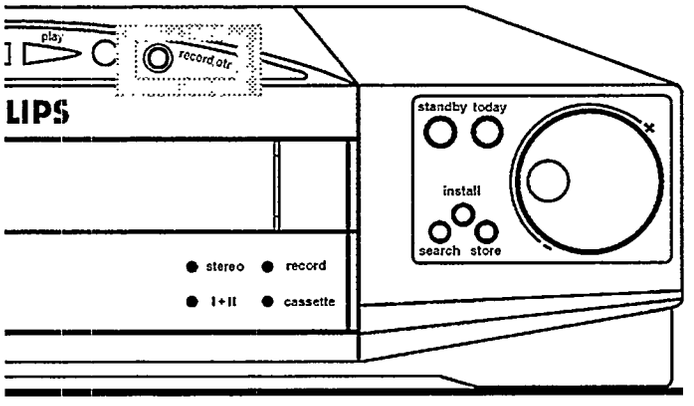
The easiest way of recording is to directly record a TV programme that is currently being transmitted.

And this is how to go about it:

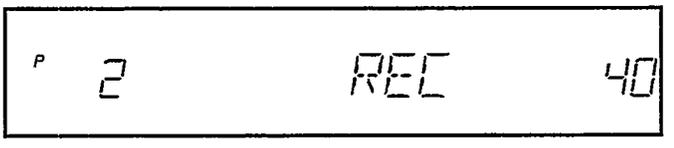
1. Insert a cassette. The video recorder will switch on automatically.

2. Use the rotary control ○ or the digit buttons 0-9 (remote control) to select the programme number of the TV channel from which you wish to record.
   The programme numbers 'E1' and 'E2' are reserved for recording from external sources (via AV-Euro-sockets 'EXTERNAL 1/2').
   Press button SP/LP to select a different recording speed (SP/LP).

3. When you want to start recording, press button RECORD / OTR.



The display of the video recorder will show, e.g.:



The video recorder will record the TV programme you have chosen. The small red 'RECORD' lamp will light up on the display.

4. You can stop recording by pressing button STOP.

Note: If you do not want to record to the end of the cassette, press button RECORD / OTR again. The display will show the **end time of the recording** (also known as the OTR time). Each time you press button RECORD / OTR again, you can add another 30 minutes.
If you have pressed it too many times, you can return to normal recording by pressing button CLEAR (remote control).

As soon as the end time is reached, the video recorder will switch off automatically.

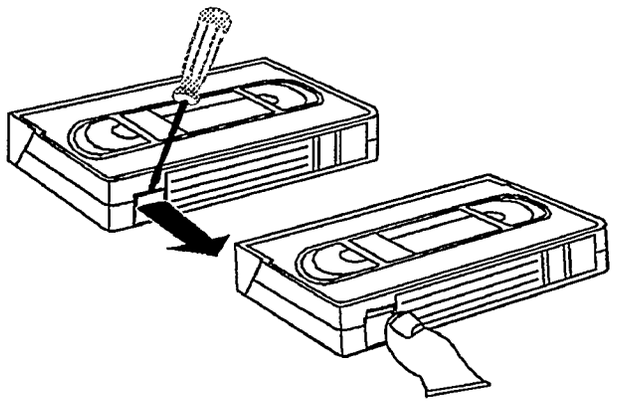
Can I switch off the TV set during recording?

Yes. Your video recorder has its own receiver, enabling it to record TV programmes. This means that you can use the TV set independently of the video recorder while recording. You can switch it off and on or watch another TV channel without disturbing the recording.
If you would like to check what you are currently recording, select on the TV set the programme number assigned to the video recorder.

General notes: * While recording one TV programme, do you wish to switch to another TV channel and record this? To do this, you have to interrupt the current recording with button STOP. Then select the new programme number and start recording the TV programme you want with button RECORD / OTR.
* If you forget to load a cassette before recording, the display will warn you by showing 'EJECT'.
* If you accidentally load a cassette with erase protection for a recording, the indication 'PROTECTED' will appear in the display.
After a few seconds the cassette will be automatically ejected.
* If the end of the cassette is reached during recording, it will be automatically ejected. The video recorder switches itself off.
* When you make a new recording on a video cassette, it will automatically record over and delete any recordings already on the cassette.

Erase protection

So that you don't accidentally delete an important recording, you can remove the special tab (erase protection) on the back of the cassette with a screwdriver.



Later, if you no longer want the erase protection, you can seal the gap again with adhesive tape.

Auto-assembling

You can use the auto-assembling function to link up individual recordings without any disturbing picture transition ('flickering').

❶ Press button PLAY. Search for the correct position on the tape and then stop the playback with button STOP.

❷ Now start recording as usual with button RECORD / OTR.

Long play function

You can reduce the recording speed by half. This makes it possible to record, for example, 8 hours instead of 4 hours with a 'E240' cassette.

❶ **Before** recording, use button SP/LP to select the recording speed 'LP' (LP = Long Play).

❷ During playback, the video recorder automatically selects the correct playback speed.

Hi-Fi stereo reception

Whenever a TV programme is transmitted with Hi-Fi stereo sound, this is indicated in the display by one of the following indicators:

I+II	for sound in two languages (bilingual)
STEREO	for Hi-Fi stereo sound

During recording, the sound is always recorded automatically in Hi-Fi stereo or in two languages.

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HOW DO I PROGRAMME A RECORDING? 5

In this chapter you will learn how to programme the video recorder. It switches itself on automatically, records the TV programme you want, and then switches itself off again automatically.

What information is needed by the video recorder?

For every programmed recording you must give the video recorder the following information:

* the date on which the recording is to be made
* the programme number
* the start time of the recording
* the end time of the recording

The video recorder stores all this information required for recording in what is known as a TIMER block. And, that up to one month in advance.

Your video recorder can store up to 7 of these TIMER blocks.
An eighth block is used for TODAY programming.
The video recorder allows you one minute for each entry step.
Please note that the timing of the TIMER blocks may not overlap. The video recorder must first finish one TIMER block before starting the next block.

What is the Video Programming System (VPS)?

With VPS, the TV station controls when the video recorder is switched on and off. This means that the video recorder always switches on and off at the right time even if a programme you have programmed starts earlier or finishes later than expected - provided that the TV station is actually transmitting VPS.
Not all TV stations transmit a VPS time code.
You can see if a TV station is transmitting a VPS time code by the indication 'VPS' in the 'STOP' position on the display.

Note: The first few seconds of a recording may be missing if the switch-on command sent by the TV station is late.

How to programme the video recorder

With this video recorder you have a choice of two different kinds of programmed recording:

The simple way of programming a recording on the same day is called **'TODAY programming'** .

You can enter the data that you want to programme into the remote control and then transmit this data to the video recorder. We call this possibility **'Programming on the remote control'.**

TODAY programming

It is very easy to programme a recording for TODAY. You only need to enter the programme number and the start time.
Please note that only **one** TODAY programming is possible per day.
The recording will be made until the end of the loaded cassette.
Of course, if you activate the VPS function, the recording will be made only until the end of the selected TV programme.

❶ Press button TODAY.
The programme number currently selected will flash in the display:

Use the rotary control ○+ or the digit buttons 0-9 (remote control) to select the programme number of the TV channel from which you want to record.

❷ Press button TODAY again. The start time flashes in the display:

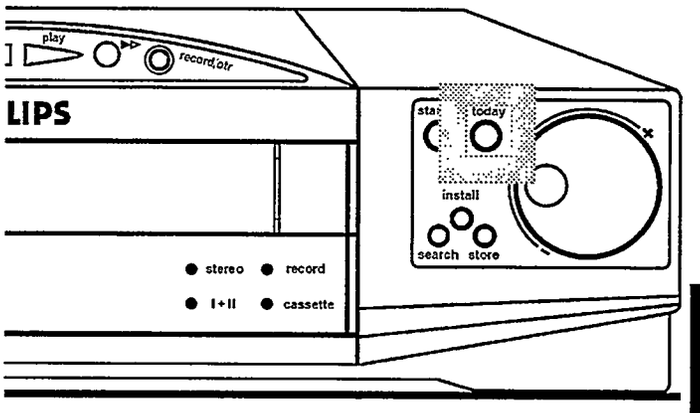
Enter the start time.

Some notes on VPS: You can switch VPS on and off with button SELECT (remote control).
Take note of the VPS details beside the individual TV programmes in your TV guide. If the TV guide gives a VPS time code that differs from the start time of a TV programme, e.g. '20.15 (VPS 20.14)', you have to enter the VPS time code 20.14 as the start time when programming.
A VPS-controlled recording only works if the exact VPS time code is entered.

If you want to enter a time that differs from the VPS time code, you have to switch off VPS with button SELECT.

❸ To finish, press button TODAY again.
If you only want to check the data, you can end this process with button STANDBY.

Important note: The TIMER only switches on the video recorder automatically if it is **switched off** at the start time of the programmed recording.
Make sure that the video recorder is always switched off with button STANDBY after use.



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Cancelling TODAY programming

❶ Press button TODAY on the video recorder and then button CLEAR on the remote control.
To confirm this, the display shows the following for a few seconds:

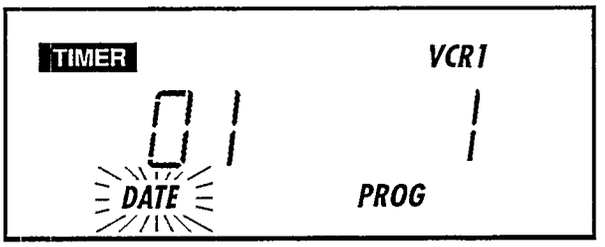
❷ You have now cancelled the programming.

Programming on the remote control

You can enter and store the data for **one** recording in the remote control.
The remote control display shows you all the programming steps. Use the digit buttons 0-9 or button VCR PROGRAMME + or − to enter the data.
With the last press of the button you transmit the programmed data to the video recorder. The data will be stored in the next free TIMER block of the video recorder.
Make sure that you have not inserted a cassette with erase protection.

❶ Press button TIMER RC.

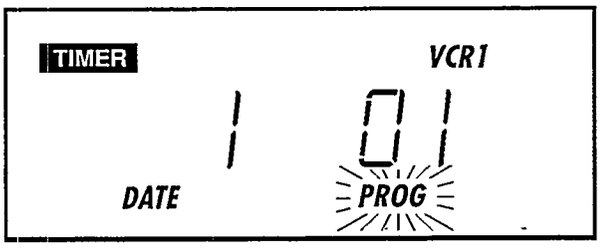
The remote control display will show, e.g.:



The data last entered will appear.
Now enter the date on which the recording is to be made.

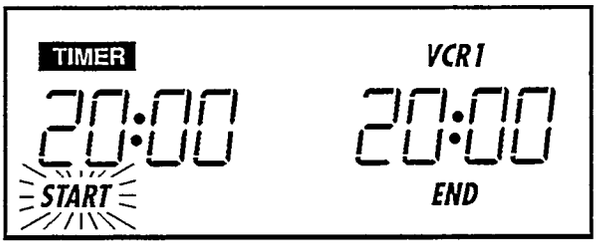
If the display also shows the indicator 'D' or 'W', press button SELECT one or more times until only 'DATE' is shown.

❷ Press button TIMER RC. The display will show, e.g.:



Now enter the programme number of the TV channel from which you want to record.

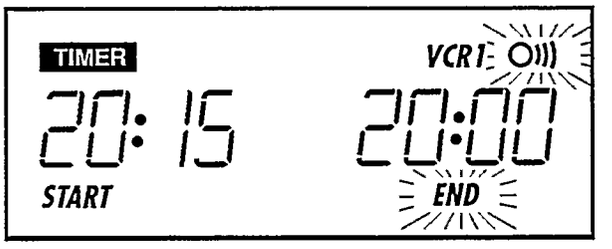
❸ Press button TIMER RC again. The display will show, e.g.:



Now enter the start time of the recording.

Some important notes on VPS: You can switch VPS on and off with button SELECT. Take note of the VPS details beside the individual TV programmes in your TV guide. If the TV guide gives a VPS time code that differs from the start time of a TV programme you have programmed, e.g. '20.15 (VPS 20.14)', you have to enter the VPS time code '20.14' as the start time when programming.
A VPS-controlled recording can only work if the exact VPS time code is entered.
If you want to enter a time that differs from the VPS time code, you have to switch off VPS with button SELECT.

❹ Press button TIMER RC. The display will show, e.g.:



Now enter the end time of the recording.

❺ Transmit the data to the video recorder. To do this, point the remote control at the video recorder and press button TIMER RC.

The programmed data is now sent to the video recorder.
If the video recorder has correctly received the data, the video recorder display shows, e.g.:

Programming is now complete. The data has been stored in a TIMER block (e.g. 'TIMER 1').

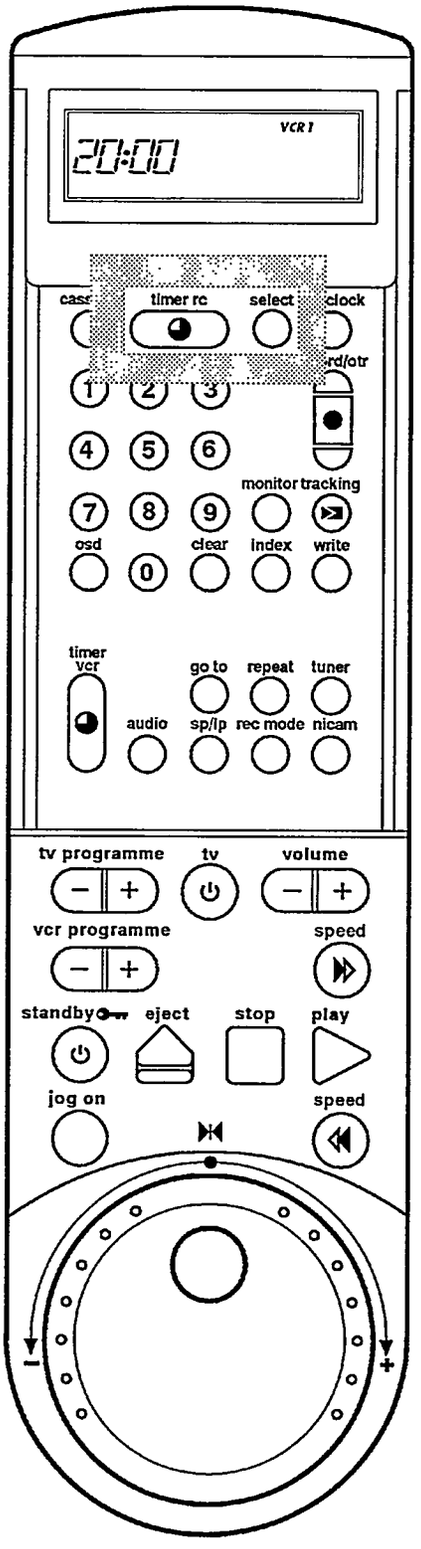
To programme a TV programme that is on every day or every week:

You don't have to programme a series each time afresh. When you are entering the recording date, you can programme a daily or weekly repeat at the same time. Programme the TIMER block as usual. Press button SELECT when you are entering the recording date in step ❶.

In addition to 'DATE', the display will show:

Press once	=	'D' for recording every day (Daily)
Press twice	=	'W' for recording every week (Weekly)

Some general notes: * The TIMER switches on the video recorder automatically only if the video recorder is **switched off** at the start time of the programmed recording.
* If you don't press any button for one minute during programming, the remote control automatically interrupts the process. You then have to begin programming anew.
* The contents of the TIMER block remain stored in the remote control as long as you have transmitted the data to the video recorder. If, after entering the end time, you do not wish to transmit the data to the video recorder, press button STANDBY.
* While a programmed recording is being made, you cannot use the video recorder manually.
If you want to interrupt the programmed recording, press button STANDBY.
* If the end of the cassette is reached during a programmed recording, the video recorder automatically ejects the cassette and switches off.
* If you forget to load a cassette after programming, the word 'EJECT' appears in the display of the video recorder.
* If you insert a cassette with erase protection for the recording, the indication 'PROTECTED' appears for a few seconds in the display of the video recorder.
The cassette is then ejected.
* If you have programmed all TIMER blocks, the display of the video recorder will show 'MEMORY FULL'.
* The programmed recording is always made at the recording speed (SP/LP) that **has just been** selected on the video recorder.



ENGLISH

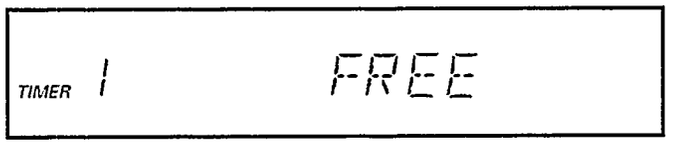
How can I check or correct a TIMER block?

1. Press button TIMER VCR on the remote control.
2. Use button VCR PROGRAMME + or − to select the TIMER block that you wish to check or correct.
3. Now press button TIMER VCR several times. The recording date, the programme number, the start time and the end time will be displayed one after another on the video recorder.
   You can change all data with button VCR PROGRAMME + or − or with the digit buttons 0-9.
4. Finally, press button TIMER VCR again. If you have made any corrections, the data is now up to date.

Note: By following the above instructions, you can not only check any programmed TIMER block but also programme a **new** block.
To do this, select a **free** TIMER block. Enter the data as outlined in step 3. During the 'programme number ' step, you can also use button SELECT to programme the recording mode 'SIMULCAST' or 'AUDIO ONLY'.

How can I cancel a TIMER block?

1. Press button TIMER VCR on the remote control.
2. Use button VCR PROGRAMME + or − to select the TIMER block that you want to cancel.
3. Press button CLEAR and the TIMER block is cancelled. The display on the video recorder will show, e.g.:



OTHER RECORDING POSSIBILITIES 6

You have a choice of several recording modes. You can select them by pressing button REC.MODE (remote control). To return to the normal recording mode, switch off the function with button STANDBY or press button REC.MODE one or more times until the display shows 'STOP'.

Audio dubbing

This function enables you to replace (dub) the sound track of a previously made recording with another sound recording (socket AUDIO IN).

Only the normal (linear) sound track is changed. The stereo sound track and the video image remain unchanged.

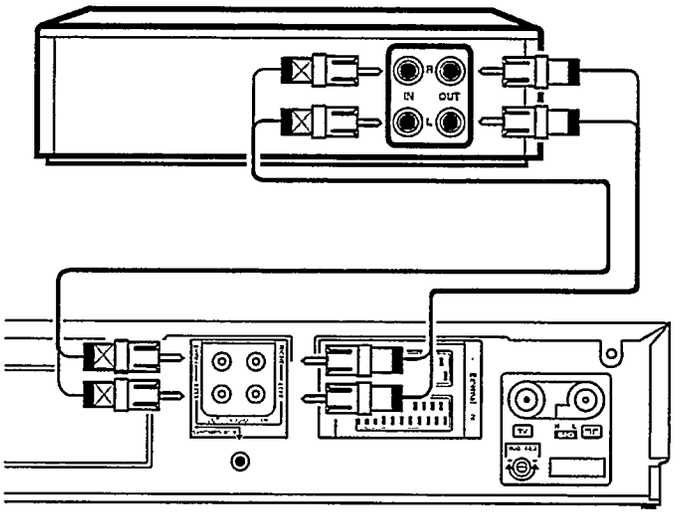
1. Press button PLAY to locate the position at which the audio dubbing is to start.
2. Press button STOP. The video recorder is now in the 'STOP' position.
3. Press button REC.MODE (remote control). The display on the video recorder will show:

4. Press button RECORD / OTR.

The video recorder will start to record the sound input from the audio source, replacing the normal sound track. Audio output is controlled automatically.
If you want to listen to the sound recording, select the 'mono' sound track.

5. You can finish the recording with button STOP.
6. Switch off the video recorder with button STANDBY.

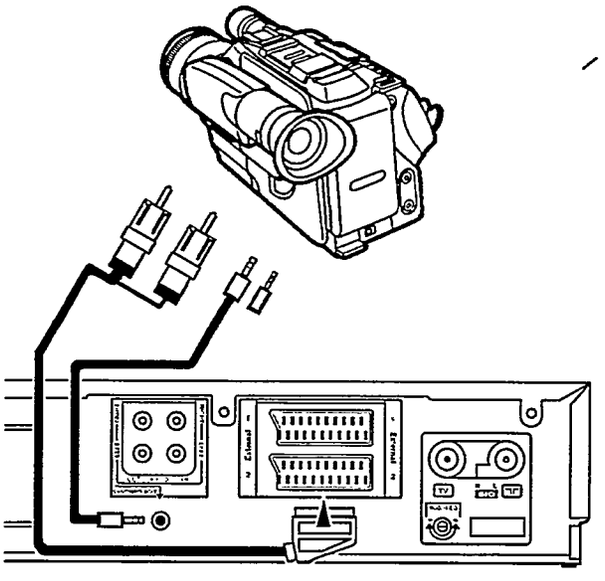
Note: You can mix the original Hi-Fi sound with the sound from an external audio source by connecting a mixing panel to the video recorder. The sound cannot be heard during recording.



Synchronous Editing (Synchro-Edit)

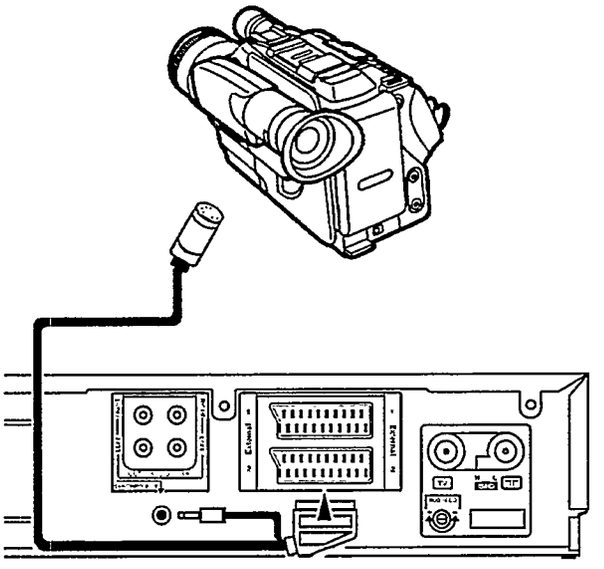
You can edit synchronously with a connection cable between an appropriately equipped camcorder and the video recorder. For example, cable SBC1085 + SBC5512 for Variant 1. Both appliances are started at the right time with the help of a synchronized pulse and the adjustable pre-roll time.
Two different operating and cabling variations are possible. Connect both appliances while they are switched off.

Variant 1:



ENGLISH

Variant 2:



Pay attention to the operating instructions for your camcorder. The video/audio signal enters the video recorder via the socket EXTERNAL 2.

1. Press button REC.MODE several times until 'EDIT' appears in the display.
2. You can change the pre-roll time with the buttons VCR PROGRAMME + or −. The display will show, e.g. 'START 1:56' (seconds).
3. Confirm your setting with button STOP.
4. Locate the right tape position on the video recorder for recording. Press button STOP again.
5. Locate the right tape position on the camcorder.
6. Press button 'PAUSE' on the camcorder.
7. In accordance with the above cabling, there are two ways to start editing.

Variant 1

8. Start the editing process with button RECORD / OTR on the video recorder. The camcorder starts with 'PLAYBACK' and the video recorder starts synchronously with 'RECORD'.
9. Stop the recording with button STOP on the video recorder.
10. Switch off the video recorder with button STANDBY.

Variant 2

8. Start editing, e.g. with button 'EDIT' on the camcorder. The camcorder starts with 'PLAYBACK' and the video recorder starts synchronously with 'RECORD'.
9. Stop the recording with button 'PAUSE' on the camcorder.
10. Switch off the video recorder with button STANDBY.

Note: If the start of the scene to be edited is missing, then the setting for the pre-roll time is too long. Simply set a shorter time (e.g. 1:40) as described in step 2. If the recording starts before the scene to be edited, the setting for the pre-roll time is too short. Then you must increase the set time, e.g. to 2:10.

'Audio only' recording

You can also make 'Audio only' recordings (audio recordings) with this video recorder. To do this, connect the video recorder to an audio system (socket AUDIO IN).
The recording is made at half-speed. This gives you twice as much recording time as is indicated on the cassette.

1. Insert a cassette.
2. Press button REC.MODE until the display shows:

3. Press button RECORD / OTR. The video recorder starts to record the sound input. Any previous (video) recording is, thereby, erased.
4. Finish recording by pressing button STOP.

Note: For a programmed 'AUDIO ONLY' recording, read the note in Section 'Correcting/Cancelling a TIMER block'.

Simulcast recording

The stereo sound of some TV programmes is broadcast simultaneously on FM radio. In order to get the best stereo sound quality you can record the picture from the TV channel and simultaneously record the stereo sound from the radio.
To do this, connect the radio to the socket AUDIO IN using an audio cable.

1. Tune your radio and the video recorder to the desired programme.
2. Press button REC.MODE (remote control) until the display on the video recorder shows:

❸ Press button RECORD / OTR.
The video recorder starts recording the sound from the radio and the pictures from the TV channel.

❹ Finish the recording with button STOP.

Notes: * Simulcast recording without a video signal is not possible.
* For a programmed simulcast recording, read the note in the Section 'Correcting/Cancelling a TIMER block'.

Insert function

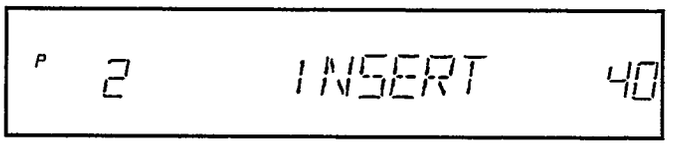
This function enables you to insert a new scene into an existing recording without a disturbing transition.

❶ Locate the position at which you want to insert a scene with the button PLAY.

❷ Press button STOP.

❸ Press button VCR PROGRAMME + or − or the digit buttons 0-9 (remote control) to select the programme number of the TV channel from which you want to record.

❹ Press button REC.MODE (remote control) until the display of the video recorder shows:



❺ Press button RECORD / OTR.

❻ Finish the recording with button STOP.

Notes: * Inserted scenes are inserted with a diminished picture quality. During playback, inserted scenes may show a slight colour distortion and instability.
* If you wish to end the insert recording automatically, search for the desired end on the cassette.
Select the counter indication of the tape position and reset it to '0' with the button CLEAR.
Now rewind to the beginning of the recording and start recording. The video recorder will automatically end the recording when the counter reaches '0'.

Externally controlled recording

Do you have another device, e.g. a satellite receiver, with a built-in clock through which other equipment can be controlled? With this video recorder, you can control the recording from an external device via the socket EXTERNAL 2.

❶ While the video recorder is switched off, press button MONITOR for five seconds. The display will show 'RECORD PREP'. The video recorder is now ready to record.

❷ The start and end of the recording is remote-controlled via socket EXTERNAL 2.

❸ If you want to interrupt this function, press button STANDBY.

Note: It is **not** possible to use a decoder with this function.

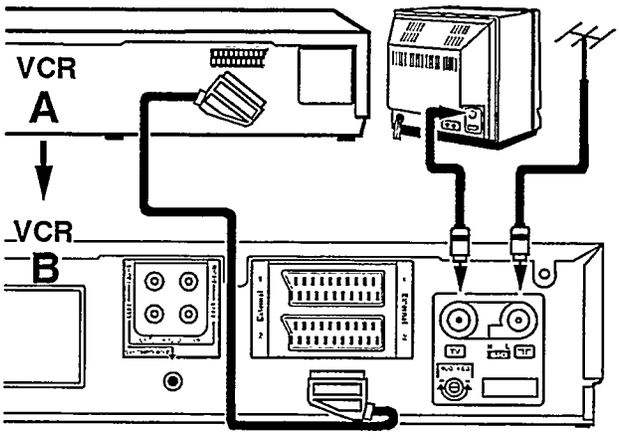
Recording from another video recorder

With this video recorder, you can make recordings from an external source, e.g. copying onto this video recorder from a second video recorder.
To do this, you will need an AV-Euro-cable (scart-cable).

❶ Connect this video recorder to the appliance from which you want to record, e.g. a second video recorder.

To do this, insert the AV-Euro-cable on each set into the AV-Eurosocket. This is socket EXTERNAL 2 on this video recorder.

Note: In the following description, this video recorder is to be used for recording and will be referred to as VCR B. The other set is used for playback and will be referred to as VCR A.



❷ Insert the recorded cassette into VCR A and a blank cassette into VCR B.

❸ Now select the programme number 'E2' on VCR B. 'E2' is next to programme number 'P1' (P1 - E1 - E2). Use the rotary control −O+.

❹ To start the recording, press the recording button RECORD / OTR on VCR B and the playback button PLAY on VCR A.

❺ When you want to finish copying, press the stop button STOP on both video recorders.

ENGLISH

SPECIAL FUNCTIONS AND EXTRAS OF YOUR VIDEO RECORDER 7

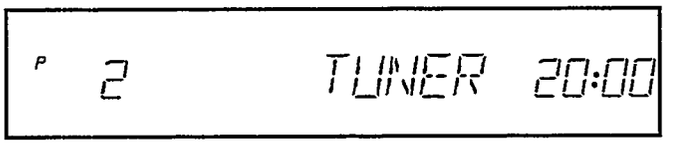
Apart from the functions that have already been described, your video recorder has other special functions and extras designed to make operating your video recorder as convenient as possible.
In this chapter you will find out more about them.

Tuner mode. Your video recorder as an extension of your TV set

You can also use your video recorder as a TV receiver (tuner). This is handy if your TV set does not have remote control or if it has fewer channel buttons than the number of channels it could actually receive.

This is how you go about it:

1. Switch on the TV set. Select the programme number reserved for video playback.
2. Press button TUNER on the remote control.
   The display will show, e.g.:



3. Use the rotary control or the digit buttons 0-9 (remote control) to select the TV channel that you want to see on the TV screen.
4. Switch off the video recoder with button STANDBY if you no longer want to watch TV.

Important! Programmed recordings cannot be carried out when your video recorder is in the tuner mode. Switch if off with button STANDBY.

The TV monitor function

You can press button MONITOR to switch the TV set to programme number 'AV' (= Audio/Video input). The video recorder must be switched on.
The display shows 'VCR MONITOR' for a few seconds. Press the button again to switch the monitor function off.

An important note: The monitor function responds **only** if the TV set is also equipped for this switch-over and you use an AV-Euro-cable for the connection to the TV set.

Child lock

This function prevents the unauthorized operation of your video recorder. All button functions are blocked. If a button is pressed, 'LOCKED' appears for a few seconds in the display. But don't worry: Programmed recordings are made despite the child lock and cannot be interrupted.

1. Press button STANDBY on the remote control **for more than five seconds** until 'LOCKED' appears in the display. The child lock is now activated.
   Keep the remote control in a safe place.
2. When you want to switch off the child lock, press button STANDBY again **for more than five seconds.**
   After five seconds 'UNLOCKED' appears in the display.

An extra feature of this remote control

If you have a TV set that can accept the remote control code of this remote control, you can also use the remote control for some TV functions:

* Programme number +/-
* TV volume +/-
* Switch off TV

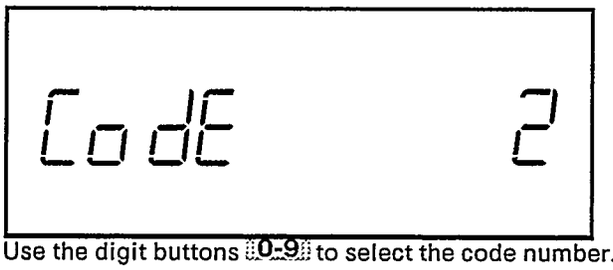
This remote control is equipped with a number of remote control codes pre-defined for specific TV manufacturers. You can select the TV volume or programme number, as well as switching the TV on and off.
Note: If the selected code does not work on your TV set or if you can't find your TV manufacturer in the list, you can test all the codes one by one. Here is a list of some of the manufacturers.

Code number	TV set manufacturer
0	Philips,Pioneer, Hornyphon, Mediator, Aristona, Phonola, Radiola, SBR, Sierra, Erres, Pye, Dux, Schneider (F), Universum
1	Sinudyne
2	Finlux, Universum
3	Salora, Nokia, ITT, Luxor, Pioneer, Schneider, Dual
4	Orion
5	Panasonic
6	Telefunken*)
7	Telefunken,Thomson Brandt, Saba, Nordmende, Ferguson, Marconi, Continental, Edison*)
8	Sanyo
9	Grundig, Siemens

*) **Note** for code numbers '6' and '7': When you are selecting your TV channels, hold down the button TV PROGRAMME — and use the digit buttons 0-9 to select the programme number.

Enter the desired code number into the video recorder as follows:

❶ Press button TV PROGRAMME – and TV VOLUME + at the same time. The display will show, e.g.:



❷ Use the digit buttons 0-9 to select the code number.

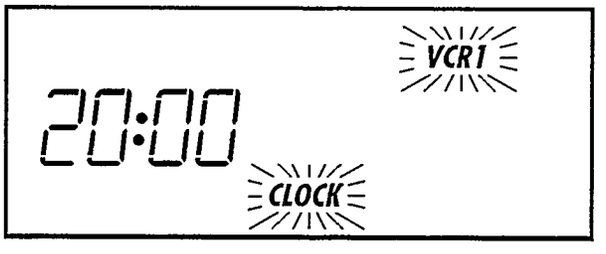
❸ To conclude, press button STANDBY.

VCR 1 / VCR 2 switch-over

This is an important function for you if you have two video recorders which accept the same remote control code. You can quite easily change the remote control code for this video recorder and this remote control, so as to prevent the unintentional operation of the wrong video recorder.

❶ Switch off the video recorder with button STANDBY. Now press button INSTALL on the video recorder. The display of the video recorder will show the indicator for the 'TEST PICTURE'.

❷ Press button SET CLOCK on the remote control. The remote control display will show, e.g.:



❸ Press button SELECT (remote control) **for more than five seconds** until 'VCR 2' appears in the display.

❹ Press SET CLOCK on the remote control.

❺ Press button STANDBY on the remote control. The video recorder is now switched over.

❻ If you want to switch the set back to 'VCR 1', simply follow the same sequence.
The remote control again shows 'VCR 1'.

Auto-dimmer

You can choose the brightness of the display on the video recorder when it is switched off.
To do this, switch off the video recorder with button STANDBY and use button VCR PROGRAMME + or – on the remote control to select the brightness you require.

Automatic switch-off

If the video recorder is not operated for more than 5 minutes during one of the following functions, the function is switched off.
This protects your cassette and prevents unnecessary power consumption.

The video recorder is:

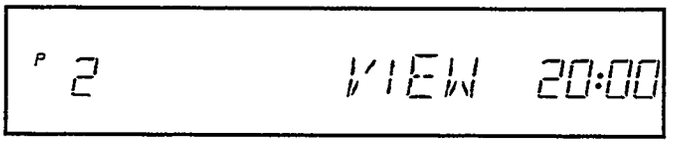
in STOP	it switches off
in EJECT	it switches off
in STILL	it switches to PLAYBACK
in SCANNING	it switches to PLAYBACK

View mode

You can make use of extra functions with an appliance connected to socket EXTERNAL 2. This appliance could be another video recorder, a decoder, a satellite receiver, or a video-CD player.

When the video recorder is switched off, the AV-Euroconnection from the second appliance to the TV set is still connected.

If your second appliance transmits a control signal, for example, during playback, this video recorder recognises this and automatically switches over to 'View Mode'. You can switch the 'View Mode' on and off with button MONITOR.



Note: If you have selected an external AV-Eurosocket for the programme number ('E1' or 'E2'), the video recorder cannot switch over to 'View Mode'.

The new 16:9 wide screen standard

This video recorder is suitable for wide screen TV sets.
If a wide screen '16:9' identification is received during a video recording from an external source (e.g.: MAC-decoder) via the EXTERNAL 2 socket, this identification is recorded too.

During playback, this identification is conveyed from the EXTERNAL 1 socket via an AV-Euro-cable to the TV set.
If the TV set is not equipped for playing back wide screen pictures or cannot handle the identification, switch the video recorder to the normal 4:3 format. To do this, look it up in Chapter 1, section 'Setting the display language and the clock', step ❹.

ENGLISH

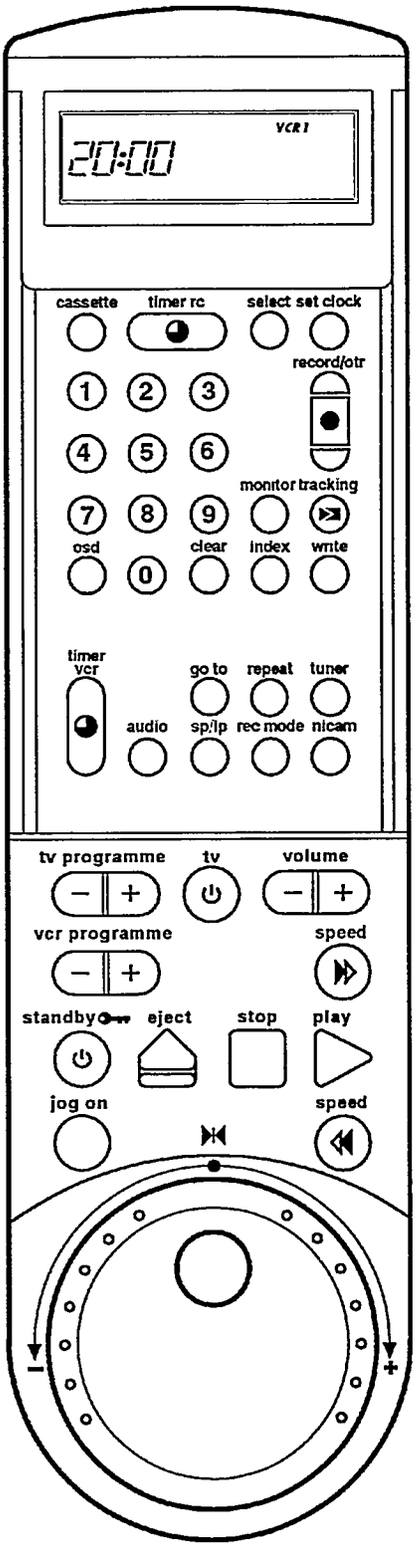
SUMMARY OF CONTROLS AND CONNECTIONS

8

Detailed information concerning the various functions is given in the relevant sections.

Symbol on the remote control . .Function

RECORD / OTR .....Record
TIMER RC .....TIMER programming on the remote control
STANDBY ⏻ .....Switch off (standby) / Child lock
EJECT .....Cassette eject
CASSETTE .....Tape length selector
SELECT .....Function selector
SET CLOCK .....Setting clock on remote control
TRACKING .....Auto-tracking/Fine tuning
0-9 .....Digit buttons
VCR PROGRAMME +/– ..Plus/Minus
INDEX .....VISS search function
WRITE .....Set VISS marker
MONITOR .....Activate the TV monitor function
CLEAR .....Reset/Clear
NICAM .....No function
TUNER .....Tuner mode
GO TO .....Search for tape position (GO TO)
TIMER VCR .....Correct/cancel TIMER
REC MODE .....Recording mode
REPEAT .....Continuous function
AUDIO .....Sound track selection
SP/LP .....Tape speed (SP/LP)
SPEED .....Rewind / Reverse scanning
PLAY .....Playback
SPEED .....Forward wind / Forward scanning
STOP .....Stop
–○+ .....Single frame/Scanning control (JOG/SHUTTLE)
JOG ON .....Single frame/Scanning function on/off
OSD .....No function

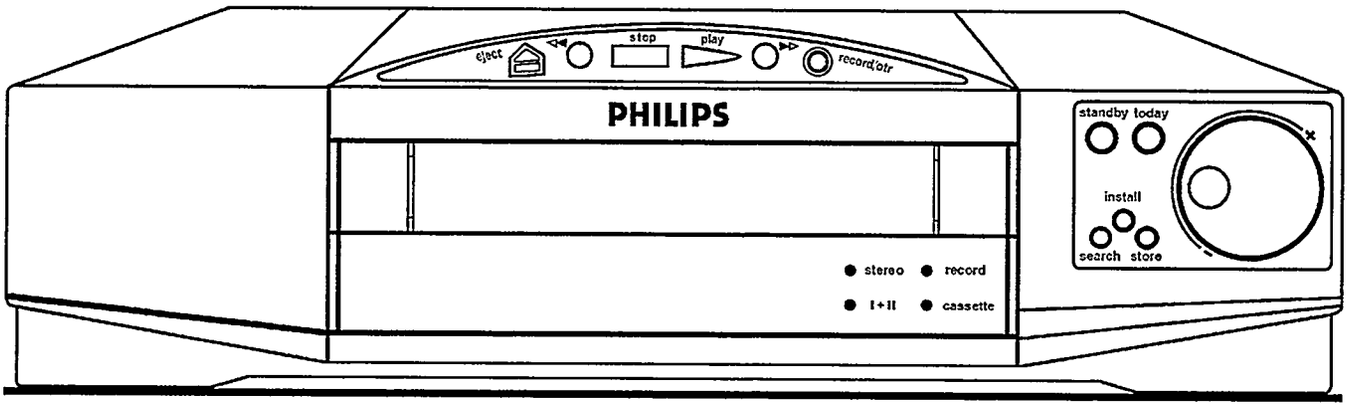


Additional TV functions (only for TV sets with the same remote control code):

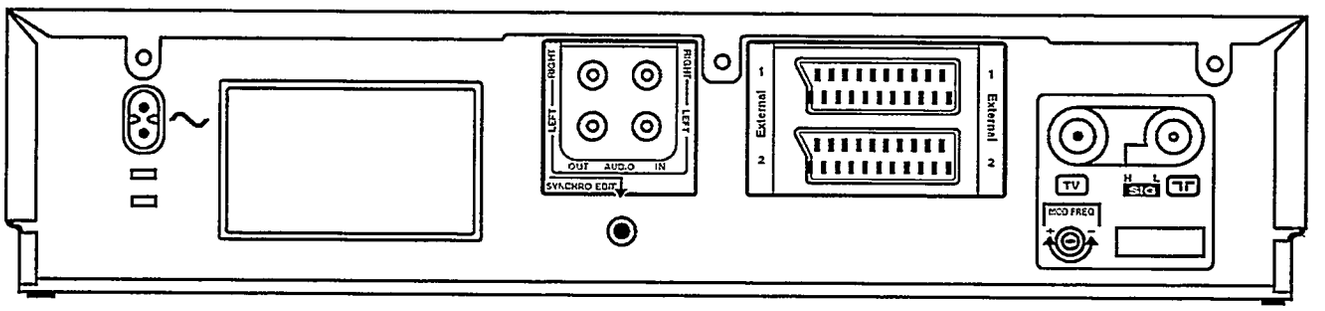
TV PROGRAMME + /– ....TV programme +/-
TV VOLUME + /– .....TV volume +/-
TV ⏻ .....Switch off TV

Note: If you press the buttons TV PROGRAMME – and + simultaneously, the programme number 'AV' (EXT 1) can be called up directly.

Symbol on the video recorder	Function
EJECT	Cassette eject
◀◀	Rewind / Reverse scanning
STOP	Stop
PLAY	Playback
▶▶	Forward wind / Forward scanning
RECORD / OTR	Recording
STANDBY	Switch off
SEARCH	Channel search
INSTALL	Installation
STORE	Channel storage
TODAY	TODAY programming
−○+	+/- rotary control



Symbol on the rear side of the video recorder	Function
~	Mains socket
TV	Aerial output socket
⊓	Aerial input socket
EXTERNAL 1	AV-Euro-socket 1 (scart)
EXTERNAL 2	AV-Euro-socket 2 (scart)
SYNCHRO EDIT	Synchro-Edit socket
+○−	Channel control
SIG	Attenuation switch
AUDIO IN RIGHT	Audio input, right channel
AUDIO IN LEFT	Audio input, left channel
AUDIO OUT RIGHT	Audio output, right channel
AUDIO OUT LEFT	Audio output, left channel



ENGLISH

BEFORE YOU CALL AN ENGINEER

9

Problem	Possible cause
The video recorder does not respond to any button being pressed	* No power supply * Child lock is activated * Programmed recording is being made * Technical disturbance: disconnect from the mains for 30 seconds, then reconnect. If this does not have any effect, you can: 1. Disconnect from mains. 2. Reconnect to mains while holding down buttons PLAY, STANDBY and EJECT. All data stored will be reset (deleted).
Remote control does not work	* Batteries are exhausted * Interference from fluorescent lamps or bright sunlight * Child lock activated * VCR 1/VCR 2 definition is wrong
No playback from the video recorder	* No recording on the cassette * Cassette has reached the end * The programme number for the video recorder was incorrectly selected or wrongly set * The connection cable between the TV set and the video recorder has come loose * 'Modulator' not in 'ON' position
Poor playback from the video recorder	* Use 'Auto-tracking' with hired cassettes * Cassette is badly worn or of poor quality * Channel control or TV set not properly adjusted * Video heads are dirty. Load/remove a cassette several times. This activates the head cleaning function
Recording is not possible	* TV channel is not stored or has been wrongly selected * A cassette with erase protection has been loaded
Programmed recording does not start	* The recording data has been incorrectly programmed * Clock/date has been incorrectly set * A cassette with erase protection has been loaded * Cassette has been wound to the end * Video recorder was in 'Tuner mode' * VPS was switched on but the 'VPS time code' was not correct

TECHNICAL DATA ACCESSORIES 10

Mains voltage	220 to 240 V
Mains frequency	48 to 52 Hz
Power consumption	19 W typical (12 W typical in standby)
Wind/rewind time	95 sec. typical for E-180
Ambient temperature during operation	+10° C to +35° C
Relative humidity	20% to 80%
Dimensions	380 x 338 x 86 mm (incl. feet)
Weight	6.5 kg approx.
Position for use	max. 15° inclination on all sides
VHS video resolution	≥ 240 lines
FM audio	20 Hz - 20KHz (-3dB)

This video recorder complies with the EC radio interference regulations (82/499/EEC).

List of accessories:

* Aerial cable
* Mains cable
* Remote control and batteries
* AV-Euro cable (scart cable)

ENGLISH

GB Guarantee. In order to facilitate the guarantee and identification of your video recorder in case of theft, enter the serial number as indicated below. The serial number (SER.NR.) is printed on the type plate fixed at the rear of your video recorder. All enquires can be handled more efficiently if accompanied by the identity card printed below. This is provided for your reference and should be kept in a safe place.	**IT** Per poter facilmente identificare il vostro videoregistratore in caso di furto inserite il numero di serie nel riquadro sottostante. Troverete il numero di serie (SER.NR.) sulla targhetta posta sul retro del videoregistratore. Inoltre si potrà rispondere più efficacemente a tutte le domande poste dalla clientela se indicate il tipo e il numero di serie dell'apparecchio. Per questo motivo è meglio che conserviate questa pagina in un luogo sicuro.
FR Pour pouvoir identifier votre appareil en cas de vol éventuel, notez le numéro de série (SER.NR.) dans l'illustration ci-dessous. Vous trouvez le numéro de série au verso de l'appareil sur la plaque de constructeur. De meme les réponses du service après-vente à vos questions seront beaucoup plus effectives si vous connaissez les données de votre plaque de constructeur. Veillez à conserver cette page.	**PT** Com vista a facilitar a garantia e a identificação do seu gravador de vídeo em caso de roubo, introduza o número de série como se indica abaixo. O número de série (SER.NR.) está impresso na placa de tipo fixada na parte posterior do seu gravador de vídeo. Todas as pesquisas serão facilitadas se acompanhadas pelo Cartão de Identificação impresso acima. É fornecido para sua orientação e convém guardá-lo em lugar seguro.
NL Om uw apparaat bij een eventuele diefstal te kunnen identificeren, vult u het serienummer (SER.NR.) in op onderstaande afbeelding. U vindt het serienummer op het typeplaatje aan de achterzijde van de videorecorder. Ook uw vragen aan de klantenservice worden effektiever beantwoord, wanneer u de gegevens van het typeplaatje kent. Bewaar deze pagina daarom goed.	**SW** För att underlätta eventuella garantireparationer och identifiering av din videobandspelare, om den blir stulen, bör du anteckna tillverkningsnumret enligt nedan. Tillverkningsnumret (SER.NR) är tryckt på typskylten på videobandspelarens baksida. Alla förfrågningar kan handläggas mera effektivt om de åtföljs av identitetskortet nedan. Förvara det på ett säkert ställe.
SP Para poder identificar su aparato en caso de robo, anote el número de la serie en la figura inferior (SER.NR). Encontrará el número de serie en la etiqueta en la parte posterior del aparato. También las preguntas al servicio de asistencia técnica serán mejor respondidas si Ud. conoce los datos de la placa de identificación. Por ello guarde muy bien esta hoja.	**SF** Kuvanauhurin takuun ja tunnistamisen helpottamiseksi mahdollisen varkauden jälkeen on hyvä merkitä sarjanumero tähän, kuten yllä on näytetty. Sarjanumero (SER.NR.) on painettu kuvanauhurin taakse kiinnitettyyn arvokilpeen. Yllä olevan tunnistuskortin käyttö helpottaa asioiden hoitamista. Kortti on syytä säilyttää tallessa.
DK For overholdelse af garanti samt identifikation af Deres videobåndoptager i tilfælde af tyveri, skriv serienummeret som vist nedenunder. Serienummeret (SER.NR.) er printet på type skiltet monteret på apparatets bagside. Alle spørgsmål kan blive behandlet mere effektivt hvis De gemmer oplysningerne på dette identitets kort, som vist neden-under. Dette er lavet til Deres hjælp og bør opbevares et sikkert sted.	**DE** Um Ihr Gerät bei eventuellem Diebstahl identifizieren zu können, tragen Sie die Seriennummer (SER.NR.) in die untere Abbildung ein. Sie finden die Seriennummer am Typenschild an der Geräterückseite. Auch Ihre Kundendienstanfragen werden effektiver beantwortet, wenn sie die Angaben des Typenschildes kennen. Bewahren Sie daher diese Seite gut auf.

TYPE **VR 722**

WD xx **SER.NR.**.....